

Appl. No. 10/806,749  
Amdt. dated March 3, 2005  
Reply to Office Action of February 8, 2005

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 - 34 (canceled).

Claim 35 (original). A thermal imaging member comprising

(a) a substrate having first and second opposed surfaces;

(b) first and second image-forming layers carried by said first surface of said substrate, said first image-forming layer being closer to said first surface of said substrate than said second image-forming layer, said first image-forming layer having a lower activation temperature than said second image-forming layer; and

(c) a first interlayer positioned between said first and second image-forming layers.

Claim 36 (original): The thermal imaging member as defined in claim 35 wherein said interlayer comprises an inert material.

Claim 37 (original): The thermal imaging member as defined in claim 35 wherein said interlayer includes a material which undergoes a phase change upon the application of heat thereto.

Claim 38 (original): The thermal imaging member as defined in claim 35 wherein said first and second

Appl. No. 10/806,749  
Amdt. dated March 3, 2005  
Reply to Office Action of February 8, 2005

image-forming layers each has a thickness of from about 0.5 to about 4.0  $\mu\text{m}$ .

Claim 39 (original): The thermal imaging member as defined in claim 35 wherein at least one of said first and second image-forming layers has a thickness of about 2  $\mu\text{m}$ .

Claim 40 (original): The thermal imaging member as defined in claim 35 wherein said first interlayer has a thickness of from about 1 to about 40  $\mu\text{m}$ .

Claim 41 (original): The thermal imaging member as defined in claim 35 wherein said first interlayer has a thickness of from about 14 to about 25  $\mu\text{m}$ .

Claim 42 (original): The thermal imaging member as defined in claim 35 and further including:

(a) a third image-forming layer carried by said first surface of said substrate, said third image-forming layer being farther from said first surface of said substrate than said second image-forming layer and having a higher activation temperature than said second image-forming layer; and

(b) a second interlayer positioned between said second and third image-forming layers.

Claim 43 (original): The thermal imaging member as defined in claim 42 wherein said second interlayer is thinner than said first interlayer.

Claim 44 (original): The thermal imaging member as defined in claim 42 wherein said first image-forming layer has a thickness of from about 0.5 to about 4  $\mu\text{m}$  and comprises a leuco dye and a developer material, each having a melting point of from about 90°C to about 140°C, said second image-forming layer has a thickness of from about 0.5 to about 4  $\mu\text{m}$  and comprises a leuco dye and a developer, each having a melting point of from about 150°C to about 250°C, said third image-forming layer having a thickness of from about 0.5 to about 4  $\mu\text{m}$  and comprising a leuco dye having a melting point of at least 150°C and a developer having a melting point of at least 250°C.

Claim 45 (original): The thermal imaging member as defined in claim 42 wherein said first image-forming layer has a thickness of from about 0.5 to about 4  $\mu\text{m}$  and comprises a leuco dye and a developer material, each having a melting point of from about 90°C to about 140°C, said second image-forming layer has a thickness of from about 0.5 to about 4  $\mu\text{m}$  and comprises a leuco dye and a developer, each having a melting point of from about 150°C to about 250°C, said third image-forming layer having a thickness of from about 0.5 to about 4  $\mu\text{m}$  and comprising a compound which forms color

Appl. No. 10/806,749  
Amdt. dated March 3, 2005  
Reply to Office Action of February 8, 2005

intramolecularly at a temperature of at least 300°C in  
from about 0.1 to about 2 milliseconds.

Claim 46 (original): The thermal imaging member  
as defined in claim 35 and further including a topcoat  
layer and a backcoat layer.

Claim 47 (original): The thermal imaging member  
as defined in claim 46 and further including

(c) a third image-forming layer carried by said  
second surface of said substrate.

Claim 48 (original): The thermal imaging member as  
defined in claim 47 wherein said substrate is  
transparent and further including a reflective layer  
adjacent the surface of said third image-forming layer  
remote from said second surface of said substrate.

Claim 49 (original): The thermal imaging member as  
defined in claim 35 wherein the thickness of said  
substrate is less than about 20µm.

Claim 50 (original): The thermal imaging member as  
defined in claim 35 wherein said substrate has a  
thickness of about 5 µm.

Claims 51 - 56 (canceled without prejudice).